

PROJECT DESCRIPTION
GENERAL

THIS PROJECT INVOLVES THE INSTALLATION OF A NEW TRAFFIC SIGNAL AT THE INTERSECTION OF MD 25 (FALLS RD)
AT CLARKVIEW ROAD IN BALTIMORE COUNTY. MD 25 IS CONSIDERED TO RUN IN A NORTH/SOUTH DIRECTION.

THE INTERSECTION IS BEING WIDENED TO ACCOMMODATE A LEFT TURN OFF OF MD 25 ONTO CLARKVIEW.

INTERSECTION OPERATION

A CONTROLLER HOUSED IN A BASE MOUNTED 'S' CABINET WITH UPS SHALL BE INSTALLED AT THIS LOCATION.
THE INTERSECTION WILL OPERATE IN A FULLY ACTUATED MODE USING 4 NEMA PHASES. THERE WILL BE AN
EXCLUSIVE/PERMISSIVE LEFT TURN PHASE FOR THE NORTHBOUND MOVEMENT OF MD 25. THE MD 25 THROUGH
MOVEMENTS WILL OPERATE CONCURRENTLY. THE CLARKVIEW ROAD MOVEMENT WILL OPERATE ALONE WITH
AN ACTUATED PEDESTRIAN MOVEMENT ACROSS THE SOUTH LEG OF THE INTERSECTION.

SPECIAL NOTES

1. THE CONTACT PERSONS FOR THIS PROJECT ARE AS FOLLOWS:

MS. ERIN KUHN, ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: 410-229-2381
MR. DONALD SCHAFER, ASSISTANT DISTRICT ENGINEER - CONSTRUCTION
PHONE: (410)-229-2421
MR. ANDRE FUTRELL, ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: 410-229-2361
MR. MICHAEL PASOARIELLO, UTILITY ENGINEER
PHONE: 410-229-2341
MR. AVIJIT MAJI, CHIEF, TRAFFIC OPERATIONS DIVISION
PHONE: 410-787-5800
MR. EDWARD RODENHIZER, SUPERVISOR, SIGNAL OPERATIONS
PHONE: (410) 787-7652

THE POWER COMPANY REPRESENTATIVE IS:

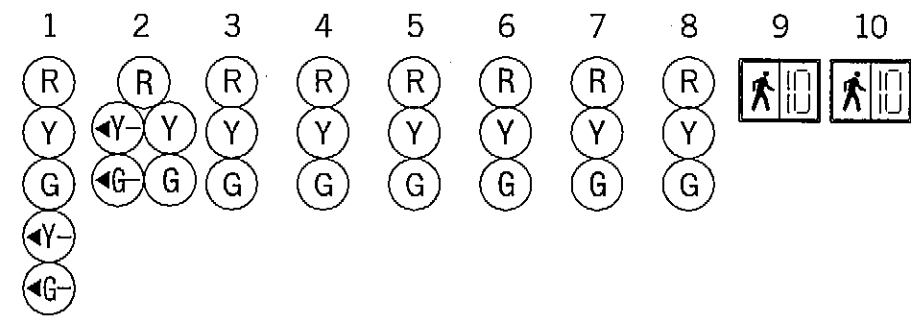
BALTIMORE GAS & ELECTRIC
1068 NORTH FRONT STREET
BALTIMORE, MD 21202
410-637-8713
WMS#

EQUIPMENT LIST

- A. EQUIPMENT TO BE SUPPLIED BY THE MARYLAND STATE HIGHWAY ADMINISTRATION.
NONE.
- B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

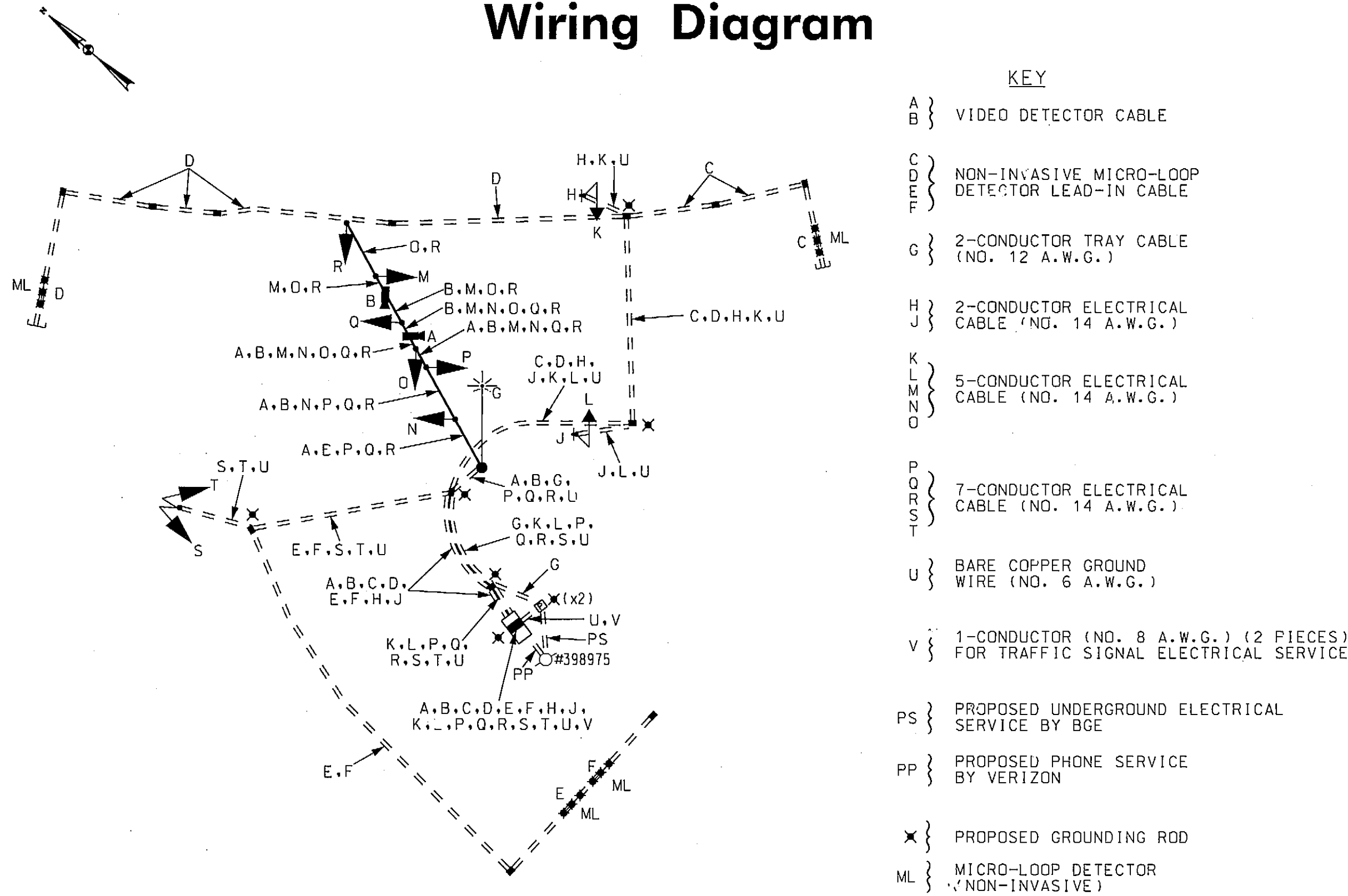
| QUANTITY | UNITS | DESCRIPTION |
|----------|-------|---|
| LUMP SUM | LS | MAINTENANCE OF TRAFFIC |
| LUMP SUM | LS | MOBILIZATION |
| 2 | EA | 10 FT. STEEL PEDESTAL POLE WITH BREAKAWAY BASE |
| 1 | EA | 14 FT. STEEL PEDESTAL POLE WITH BREAKAWAY BASE |
| 1 | EA | 27 FT. STEEL MAST ARM POLE WITH 70 FT. MAST ARM |
| 1 | EA | 20 FT. LUMINAIRE ARM |
| 1 | EA | 250W HPS LAMP AND LUMINAIRE |
| 1 | EA | STANDARD S.H.A. TRAFFIC SIGNAL CONTROLLER, BASE MOUNTED NEMA "S" CABINET WITH UNINTERRUPTIBLE POWER SUPPLY, VIDEO DETECTION INTERFACE, TELEMETRY INTERFACE, AND (1) FOUR-CHANNEL LOOP DETECTOR AMPLIFIER [Note: CONTROLLER AND CABINET SHALL BE PURCHASED FROM ECDNLITE AND DELIVERED TO THE S.H.A. SIGNAL SHOP FOR WIRING AND TESTING. CONTACT MR. ED RODENHIZER (410) 787-7650] |
| 2 | EA | VIDEO DETECTOR CAMERA (TERRA) |
| 250 | LF | VIDEO DETECTOR CAMERA CABLE |
| 3 | EA | NON-INVASIVE MICROLOOP PROBE (SET OF 3) WITH 500 FT. LEAD-IN CABLE |
| 1 | EA | NON-INVASIVE MICROLOOP PROBE (SET OF 3) WITH 1000 FT. LEAD-IN CABLE |
| 2 | EA | AUDIBLE PEDESTRIAN PUSHBUTTON ASSEMBLY WITH PUSHBUTTON SIGN |
| 1 | EA | APS 2-WIRE CENTRAL CONTROL UNIT |
| 5 | EA | 12 IN. 3-SECTION LED SIGNAL HEAD - MAST |
| 1 | EA | 12 IN. 3-SECTION LED SIGNAL HEAD - SIDE POLE MOUNT |
| 1 | EA | 12 IN. 5-SECTION LED SIGNAL HEAD - MAST |
| 1 | EA | 12 IN. 5-SECTION LED SIGNAL HEAD - SIDE POLE MOUNT |
| 2 | EA | 16 IN. 1-SECTION, 1-WAY LED (COUNTDOWN) PEDESTRIAN SIGNAL HEAD - POST TOP |
| 1 | EA | 16 IN. X VAR. D-3(1) DUAL FACED SIGN - MAST ARM |
| 1 | EA | 16 IN. X VAR. D-3(1) SIGN - MAST ARM |
| 1 | EA | 24 IN. X 72 IN. SHIELD ASSEMBLY SIGN - POLE MOUNT |
| 3 | EA | 36 IN. X 36 IN. W3-3 "NEW" SIGN - GROUND |
| 45 | EA | 4 IN. X 6 IN. WOOD SIGN SUPPORTS |
| 4 | CY | TEST PIT EXCAVATION |
| 13 | EA | HANDHOLE |
| 30 | LF | 1-CONDUCTOR CABLE (NO. 4 AWG) |
| 105 | LF | 2-CONDUCTOR TRAY CABLE (NO. 12 AWG) |
| 295 | LF | 2-CONDUCTOR CABLE (NO. 14 AWG) |
| 415 | LF | 5-CONDUCTOR CABLE (NO. 14 AWG) |
| 645 | LF | 7-CONDUCTOR CABLE (NO. 14 AWG) |
| 260 | LF | BARE COPPER GROUND WIRE (NO. 6 AWG) |
| 25 | LF | 2 IN. PVC CONDUIT [SCHEDULE 80] - TRENCHED |
| 660 | LF | 3 IN. PVC CONDUIT [SCHEDULE 80] - TRENCHED |
| 340 | LF | 3 IN. PVC CONDUIT [SCHEDULE 80] - SLOTTED IN PAVEMENT |
| 80 | LF | 4 IN. PVC CONDUIT [SCHEDULE 80] - TRENCHED |
| 110 | LF | 4 IN. PVC CONDUIT [SCHEDULE 80] - SLOTTED IN PAVEMENT |
| 8.35 | CY | CONCRETE FOUNDATION FOR TRAFFIC SIGNAL EQUIPMENT |
| 8 | EA | GROUND ROD - 3/4 IN. X 10 FT. LENGTH |
| 1 | EA | EMBEDDED ELECTRICAL SERVICE PEDESTAL (100 AMPS) |
| 100 | LF | 12 IN. WHITE THERMOPLASTIC PAVEMENT MARKING - CROSSWALK |
| 60 | LF | 24 IN. WHITE THERMOPLASTIC PAVEMENT MARKING - STOP LINE |
| 1 | EA | THERMOPLASTIC PAVEMENT MARKING SYMBOL - LEFT ARROW |
| 1 | EA | REMOVE EXISTING GROUND MOUNTED SIGN |

Phase Chart



| | | | | | | | | | | | | |
|--------------------|------|------|------|------|------|------|------|------|------|------|------|---|
| PHASE 1 AND 6 | ←GG | ←GG | G | R | R | R | R | R | R | DW | DW | ← |
| 1 CHANGE | ←YG | ←YG | G | R | R | R | R | R | R | DW | DW | ← |
| PHASE 2 AND 6 | G | G | G | G | G | R | R | R | R | WK | WK | ← |
| 2 AND 6 CHANGE | Y | Y | Y | Y | Y | R | R | R | R | DW | DW | ← |
| PHASE 4 | R | R | R | R | R | G | G | G | G | DW | DW | ← |
| 4 CHANGE | R | R | R | R | R | Y | Y | Y | Y | DW | DW | ← |
| PHASE ALT 4 | R | R | R | R | R | G | G | G | G | WK | WK | ← |
| PED CLEARANCE | R | R | R | R | R | G | G | G | G | FLDW | FLDW | ← |
| ALT 4 CHANGE | R | R | R | R | R | Y | Y | Y | Y | DW | DW | ← |
| FLASHING OPERATION | FL/Y | FL/Y | FL/Y | FL/Y | FL/Y | FL/R | FL/R | FL/R | FL/R | DARK | DARK | ← |

Wiring Diagram



MD-AMD Tracking No. 09-AP-BA-037-11



STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

MD 25 (FALLS ROAD) AT CLARKVIEW ROAD

BALTIMORE, MD

GENERAL INFORMATION PLAN

SCALE: N/A DATE: November 27, 2012 CONTRACT NO.: BW999M82

DESIGNED BY: J. STORCK COUNTY: BALTIMORE
DRAWN BY: J. STORCK LOGMILE: 03002500.97
CHECKED BY: TIMS NO.: L106
F.A.P. NO.: N/A TOD NO.: N/A

TS NO. 4893 DRAWING: SG - 01 OF 01 SHEET NO. 2 OF 2

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